Bishop Heber High School

Subject	Year	Term
Chemistry	9	2

Topic

Further Separation Techniques and Analysis

Content (Intent)

Prior Learning (Topic) Atomic Structure

Students will have improved their investigative SKILLS by identifying simple techniques for separating mixtures: filtration, evaporation, distillation and chromatography, The identification of pure substances.

Students will have learnt new KNOWLEDGE about describing the structure of different states of matter using keywords. They will now be able to Identify elements, compounds and mixtures and know how to separate them.

Students should be able to demonstrate their UNDERSTANDING of elements, compounds and mixtures and their properties.

Future Learning (Topic) The Atmosphere

What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)
Knowledge –Recall the tests for gases. To apply and explain the principles of chromatography. To identify the properties of pure and impure substances. To recall the definition of a formulation. Higher sets only - To use and recall a range of qualitative tests to detect specific chemicals (anions and cation tests). To justify the use of Instrumental methods by recalling they provide fast, sensitive and accurate means of analysing chemicals, and are particularly useful when the amount of chemical being analysed is small.	**Key Piece of work (Homework)** Pupils given a percentage and formative feedback. **End of topic test** Pupils given a percentage. Formative feedback provided. **Year 9 Assessment 2** Pupils given a percentage. Formative feedback provided.
Mathematical Skills use of ratio's, fractions, decimals and significant figures in calculations for chromatography. **Practical Skills** All pupils to execute and recall the practical 'Chromatography' Higher set pupils to perform the practical 'identification of ions in compounds'.	

How can parents help at home?

Ensure all class work is completed and homework submitted on time.
Assist in ensuring the active use of the EDUCAKE online learning platform where each pupil is given a personal log on from their teachers.
Encourage pupils to revise for tests and exams and to create revision resources such as flash cards and posters.
Ensure all pupils have all their resources required for science lessons, including knowledge organisers, exercise books, pens and calculators

Helpful further reading/discussion (including Reading and Vocabulary Lists)

Reading
EDUCAKE online learning platform.
BHHS Knowledge organisers
Resources on TEAMS
Glossaries

Vocabulary Lists
Formulation
Distillation
Condensing
Rf value
Flame Test
Mobile Phase
Stationary Phase